

CLAIMS

5 What is claimed is:

1. A process for manufacturing a thermoplastic article which comprises the steps:
 - a) Extrusion, blow molding one or more thermoplastic resins into a pre-form;
 - b) and stretch blow molding, said pre-form into a thermoplastic article.
- 10 2. A process according to claim 1, wherein blow ratio between thermoplastic resin and pre-form is about 1.5:1 or greater.
- 15 3. A process according to claim 1, wherein wall thickness of said pre-form is uniformly within about 0.010 inches.
- 20 4. A process according to claim 1, wherein multiple cavities are used in said extrusion, molding process.
- 25 5. A process according to claim 1, wherein wall thickness of said pre-form is about 0.06 inches to about 0.20 inches.
- 30 6. A process according to claim 1, wherein said pre-form is cooled prior to said stretch blow molding process.

7. A process according to claim 1, wherein said thermoplastic resin is one or more resins selected from the group consisting of polypropylene, polyethylene, polyamide, and acrylonitrile.

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8. A process according to claim 7, wherein said polypropylene is selected from the group consisting of a homopolymer of polypropylene, a copolymer of polypropylene, a clarified polypropylene, and a non-clarified polypropylene.

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9. A process according to claim 1, wherein said thermoplastic article is clear.

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10. A process according to claim 1, wherein said thermoplastic article is translucent or opaque.

11. A process according to claim 1, wherein polymer molecules in said thermoplastic article are biaxially aligned.

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12. A thermoplastic pre-form comprised of one or more thermoplastic resins wherein said thermoplastic pre-form is manufactured by a process comprising the step of extrusion blow molding.

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13. A thermoplastic pre-form according to claim 12, wherein said thermoplastic resins are one or more resins selected from the group consisting of polypropylene, polyethylene, polyamide, and acrylonitrile.

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14. A thermoplastic article made by the process of claim 1.

15. A process according to claim 1, wherein blow length ratio is about 2.5:1 to about 3.5:1.

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16. A process according to claim 1, wherein blow width ratio is about 2:1 to about 3:1.